Thailand Research Analysis and Performance (ThaiRAP)

Krich Nasingkun, National Electronics and Computer Technology Center (NECTEC) February 4th, 2025

At the Royal Jubilee Ballroom, Ground floor, Impact Challenger, Muang Thong Thani, Nonthaburi











Background and Necessity of ThaiRAP

Unified Research Platform:

ThaiRAP integrates data from TCI-indexed journals, filling gaps and providing a complete view of Thailand's research landscape.

Need for Comprehensive Data:

Effective planning, policy-making, and funding allocation require accurate and inclusive research insights.

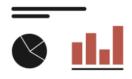
Gaps in Existing Tools:

Tools like SciVal rely on Scopus, which excludes many Thai journals, especially those in Humanities and Social Sciences.

SciVal

Source: Introduction to Scival

SciVal offers quick, easy access to the research performance of 220 nations and 9,000 research institutions worldwide, and groups of institutions



Overview

Get a high-level overview of the research performance of your Institution, other Institutions, Countries and Groups of Researchers.





Benchmarking

Compare and benchmark your Institution to other Institutions, Researchers and Groups of Researchers using a variety of metrics.





Collaboration

Explore the collaboration network of both your Institution and other Institutions.





Trends

Get the current scientific trends to determine a new research strategy, find collaboration opportunities and rising stars.







SciVa

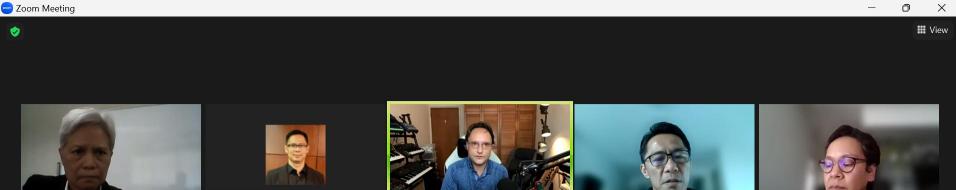
25,100+ Scopus journals

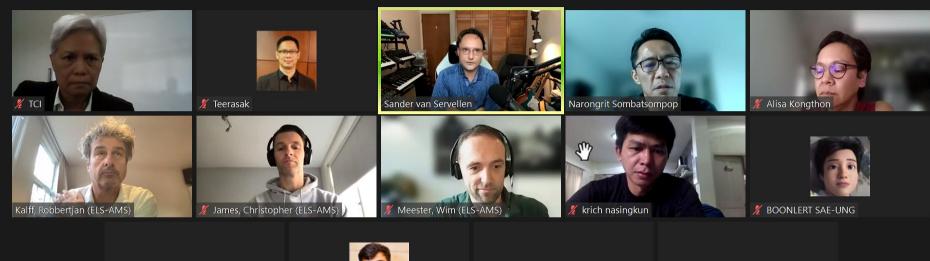
86 journals Thailand Research Analysis and Performance Powered by TCI

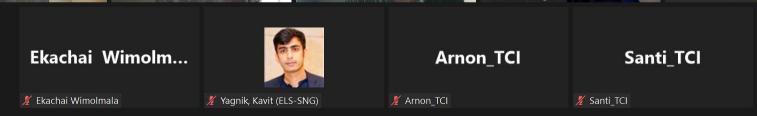
1,421 TCI journals

International database

National database











































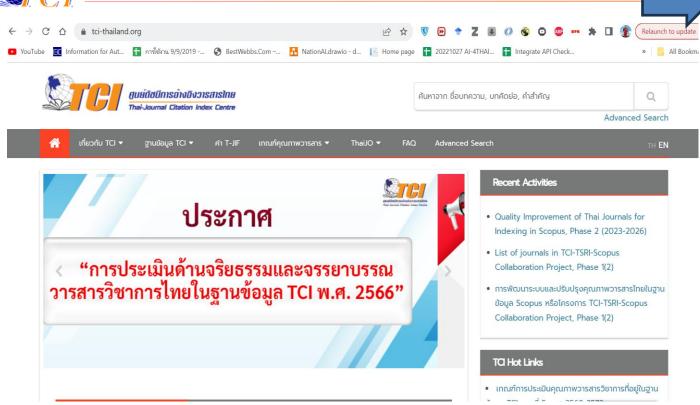




Leave



Source of data



TCI database

- 1,421 journals
- 43,213 issues
- 452,525 articles
- 1,538,355 authors
- Since 1981-> present

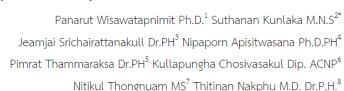




วารสารวิจัยสุขภาพและการพยาบาล ปีที่ 40 ฉบับที่ 1 มกราคม - เมษายน 2567

บทความวิจัย

The Effects of the Cognitive Training Model by Using Multidisciplinary Team among Older Persons with Mild Cognitive Impairment in the Urban Day Care Facility for Older Persons



Panusit Vanmamut B.A.9

Received: Sep 25, 2023 Revised: Jan 2, 2024

Accepted: Mar 27, 2024

Abstract

Introduction: Mild cognitive impairment (MCI) may lead to dementia. The delayed onset of dementia can be achieved by stimulating cognition.

Research objectives: To examine the effects of the cognitive training model using a multidisciplinary team approach on cognition, daily living activities, anxiety, and depression among older persons with MCI in an urban day care facility for older persons.

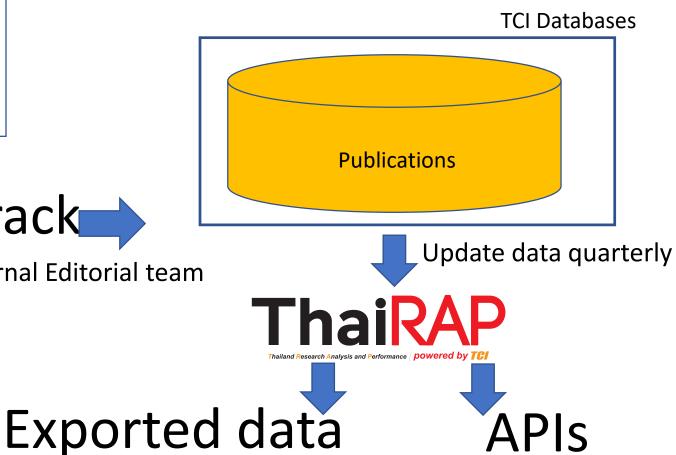


- **Journal Title**
- Subject area
- **Article Title**
- **Published** date/year
- TCl Tier
- **Authors**
- **Affiliations**
- Keywords
- References

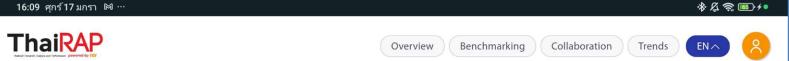
Data flows



Submit data By Journal Editorial team







Welcome to ThaiRAP



Overview

View the research performance of Researchers, Institutions, Countries and more.



Collaboration

Explore the collaboration of Institutions, Countries and Researchers.



Compare and benchmark the research performance of any entity in ThaiRAP.



Trends

Dive deeper into an area of interest.



About Terms and Conditions

Privacy Statement











Benchmarking

Contact

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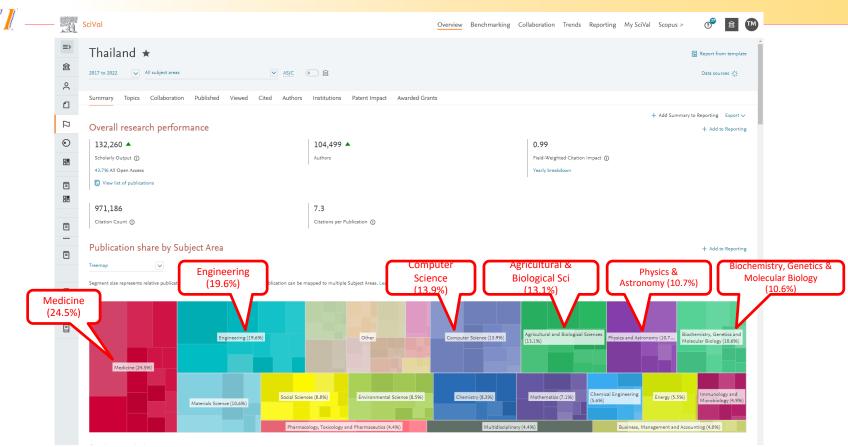
Key Features of the ThaiRAP

- Overview of Research Performance Analysis: Evaluation of the overall research performance of researchers, research institutions, and journals, focusing on metrics such as the number of publications, citation counts, and areas of expertise.
- Comparison of Research Performance: Analyze and compare research performance between institutions or researchers.
- Research Collaboration Analysis: Identify and analyze potential research collaborations between institutions or researchers.
- Strengths and Weaknesses Analysis: Evaluate the strengths and weaknesses of ongoing or proposed research topics and areas.

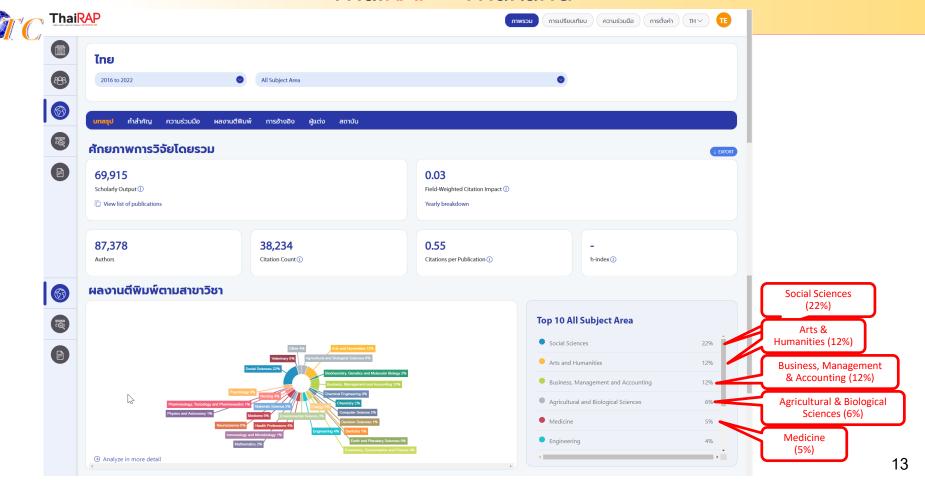
10

SciVal vs ThaiRAP

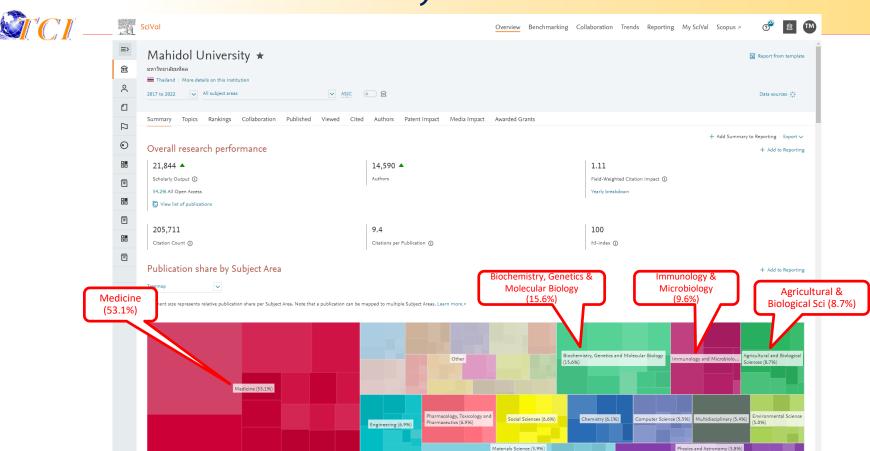
SciVal - Thailand



ThaiRAP - Thailand

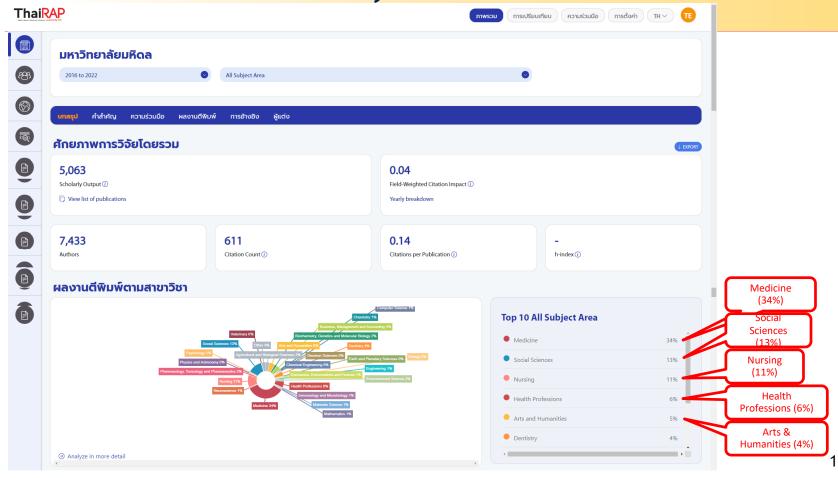


SciVal - Mahidol University

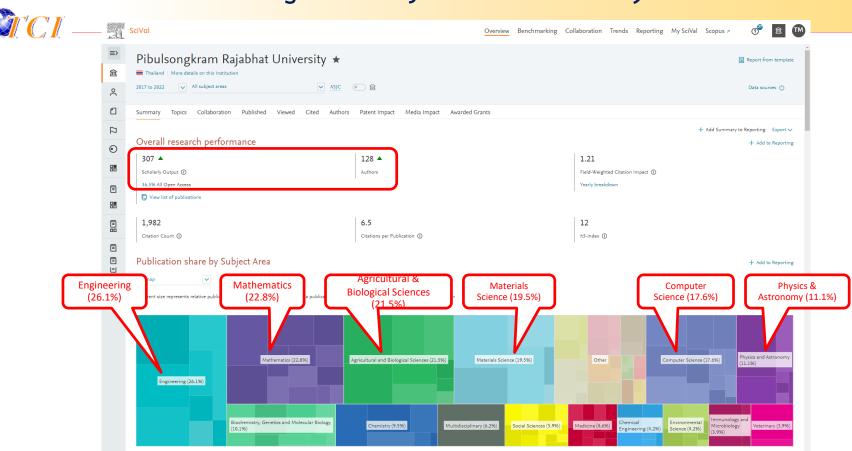


ThaiRAP - Mahidol University

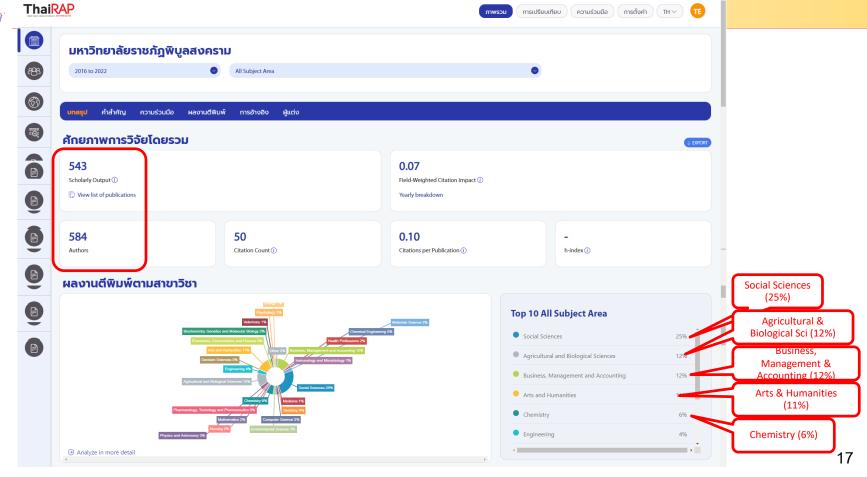




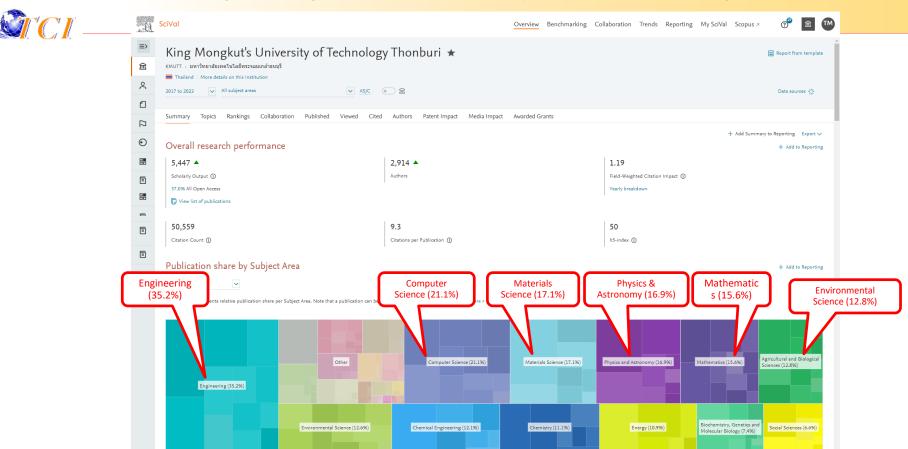
SciVal - Pibulsongkram Rajabhat University



ThaiRAP - Pibulsongkram Rajabhat University

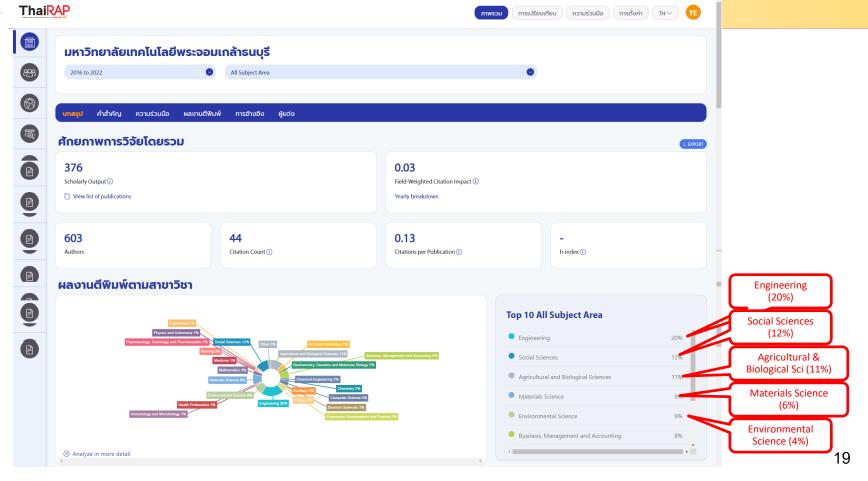


SciVal - King Mongkut's University of Technology Thonburi

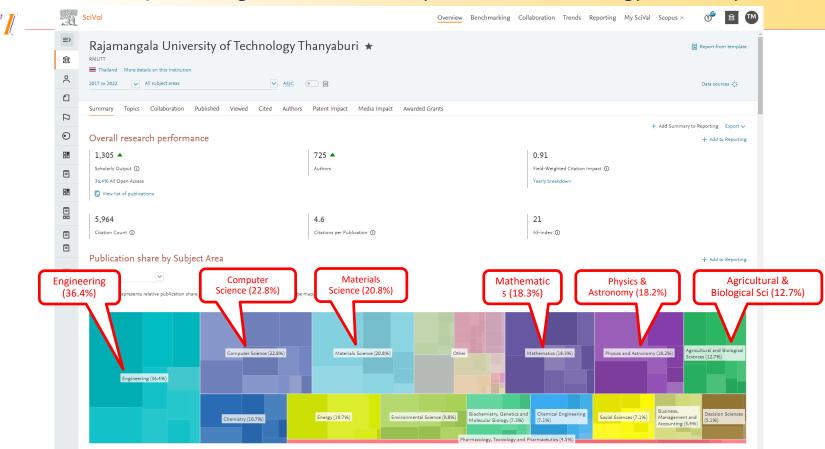


ThaiRAP - King Mongkut's University of Technology Thonburi



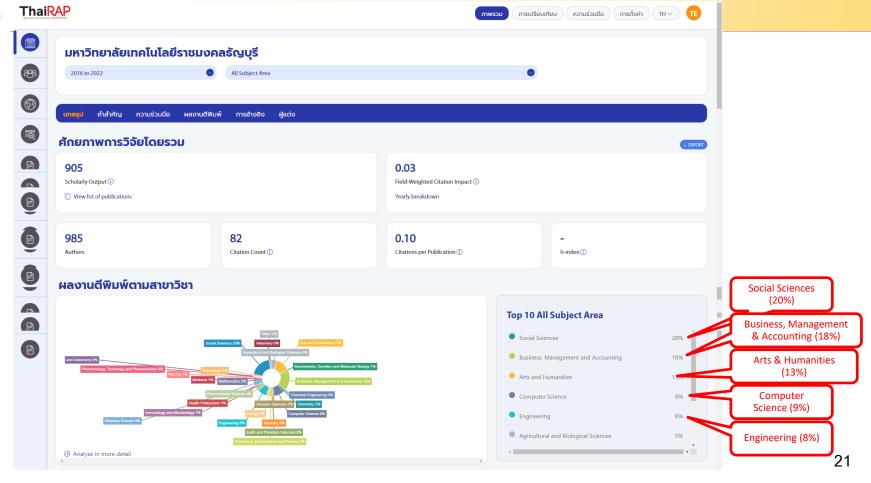


SciVal - Rajamangala University of Technology Thanyaburi



ThaiRAP - Rajamangala University of Technology Thanyaburi







Overview ThaiRAP Features





Collaboration Trends



Institute





All Subject Areas

Last update from TCI: 31 December 2024



Summary Keywords Collaboration

Published

Cited

Authors



Overall research performance



12,174 Scholarly Output (i)

2014 to 2025





0.99

Publications per Author (i)

Yearly breakdown



Authors

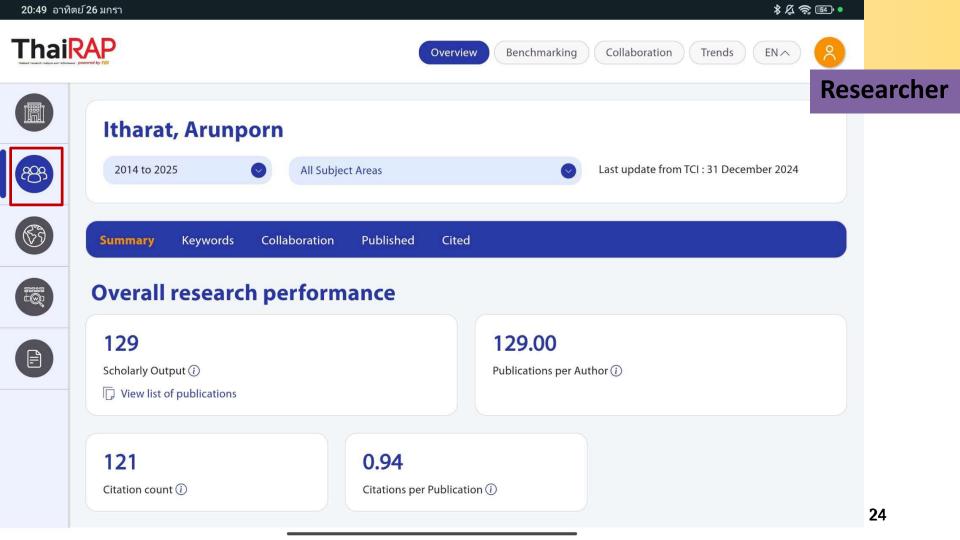
7,585

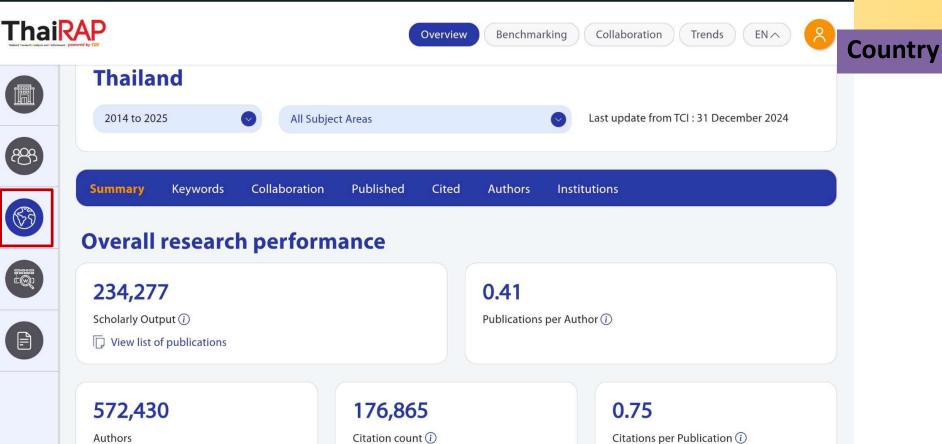
Citation count (i)

0.62

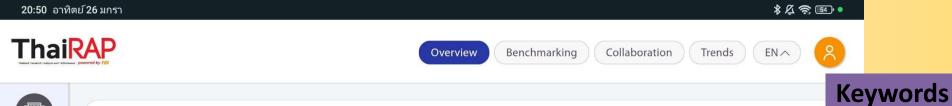
Citations per Publication (i)

Publications by Subject Area





Publications by Subject Area



Authors

Institutions

0.39

Publications per Author (i)

0.94

Citations per Publication (i)

All Subject Areas

Cited

93

Citation count (i)

Published

(88)

ข้าว

Summary

99

255

Authors

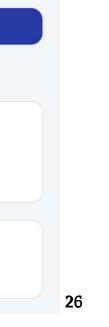
Scholarly Output (i)

View list of publications

2014 to 2025

Collaboration

Overall research performance



Last update from TCI: 31 December 2024







ABAC Journal

2014 to 2025

Summary

334





Published



Collaboration

Cited Authors



Overall research performance

Keywords



0.5

All Subject Areas

Scholarly Output (i)

View list of publications

0.50

Publications per Author (i)

668

Authors

283

Citation count (i)

0.85

Citations per Publication (i)

Last update from TCI: 31 December 2024







Benchmarking

Collaboration

EN ^

Trends

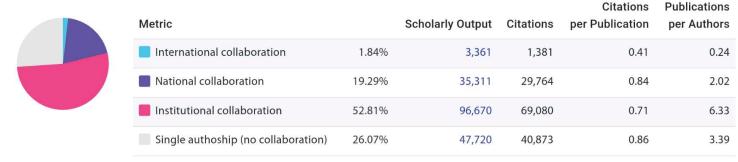




2014 to 2025 All Subject Areas Last update from TCI : 31 December 2024









Academic-Corporate Collaboration ①

Scholarly Output at ไทย with both academic (university) and corporate author affiliations

Metric		Scholarly Output	Citations	Citations per Publication	Publications per Authors	
Academic-corporate collaboration	0.13%	247	154	0.62	0.27	
Academic-government collaboration	1.31%	2,404	1,325	0.55	0.24	
Academic-medical collaboration	2 30%	4 206	1 278	1 02	0.28	







Collaboration

Trends EN ^





2014 to 2025 All Subject Areas Last update from TCI : 31 December 2024



Summary Keywords Collaboration **Published** Cited Authors Institutions

Overall by Subject Area by TCI Tier by Journal





number of publications by authors at Thailand

View list of publications

Scholarly Output ①

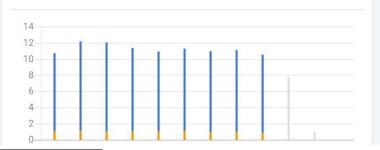




Share of publications at Thailand that are among the most cited publications in TCI

24,781

number of publications in the top 10% most cited publications in TCI















(88)













Benchmarking Collaboration

Trends

ENA















Institutions

Top 500 institutions, by Scholarly Output at Thailand over the period 2014 to 2025

Note that some authors may no longer be affiliated with Thailand

	Scholarly	
Institutions	Output	Citations
1. Mahidol University	12,670	11,278
2. Chulalongkorn University	12,174	7,58
3. Khon Kaen University	11,805	9,298
4. Kasetsart University	11,563	7,45



National Science and Technology Development Agency

Title

Year range: 2014 to 2025 Applied filters:

National Science and Technology Development Agency

Authors



Citations

TCI Source

Year

Authors



Roytrakul, Sittiruk Horprathum, Mati 23 Toojinda, Theerayut 16 Mungkalasiri, Jitti 13 Limwichean, Saksorn 13

SHOW ALL

65

45

84

Institutions



Kasetsart University 120 Chulalongkorn University 101 Thammasat University 100

SHOW ALL

Years



Mahidol University

764 publications

1 11111	7.111.11010		10.000.00	Oltationo
Efficiency Evaluation on Cooling Behavior of Water-Cooling Jacket for Synchronous Reluctance Motor	Hirai, S., Champa, P., Charoenphonphanich, C., Masomtob, M., Karukanan, S., P. Kummool, Nguyen, Khan, Kerdsup, Burin, Pham, T.D., Vo, Chau	2024	Journal of Research and Applications in Mechanical Engineering	0
Correlation of Water Quality and Average Weight of Hybrid Catfish Cultured with Biofloc System in Earthen Ponds	Koydon, Supavadee, Ngamphongsai, Chansawang, Is- haak, Jesada, Jongjaroensuk, Roongparit	2024	Burapha Science Journal	0
Application of Antimicrobial peptides in Plant-Disease Control	Roytrakul, Sittiruk, Parinthawong, Nonglak, Ditsawanon, Thitiporn	2024	King Mongkut's Agricultural Journal	0
Adsorption removal of colistin from aqueous solution using NaOH-modified granular activated carbon	Pimpa, N., Banjerdkij, Peerakarn, Kanarat, Areerat, Thaiboonrod, Sineenat, Hanwarinroj, Chayanin, Smata, Attajaree, Thanayupong, Eknarin, Ngammuangtueng, Pitak, Chaleawlert-umpon, Saowaluk	2024	Bulletin of Applied Sciences	0

Reset filter



+ 등



Overview



Collaboration

Trends







2014 to 2025

Metrics details ^



All Subject Areas



Last update from TCI: 31 December 2024



Benchmark one metric over time | Benchmark multiple metrics >

Scholarly Output









Entit	у	2014 to 2022	2023	2024	2025	Overall
8	King Mongkut's University of Technology Thonburi	1,148	121	88	0	1,357
8	National Science and Technology Development Agency	635	84	45	0	764
8	King Mongkut's University of Technology North Bangkok	2,584	322	160	0	3,066
8	Chulalongkorn University	10,295	1,246	633	0	12,174
8	Kasetsart University	9,396	1,384	782	1	11,563





Overview

Benchmarking

Q



Trends







2014 to 2025 All Subject Areas Last update from TCI : 31 December 2024



Institutions collaborating with National Science and Technology Development Agency

Find institution

(i) Metric guidance







All sectors

	Co-authors at the other			
Institutions	Co-authored publications	institution	Citation count	
Kasetsart University	120	240	24	
Chulalongkorn University	101	206	44	
Thammasat University	100	176	20	
Mahidol University	65	159	8	
Chiang Mai University	47	93		





Overview

Benchmarking

Collaboration









2014 to 2025

All Subject Areas



Last update from TCI: 31 December 2024



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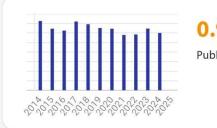




Summary

Overall research performance





0.97Publications per Author (i)









National Science and Technology Development Agency has 764 publications (2014 to 2025) in this Institute.





Overview

Benchmarking

Collaboration









2014 to 2025



All Subject Areas



Last update from TCI: 31 December 2024



Author Keywords

Top 50 Author Keywords by relevance, based on 119 publications

organic fertilizer







geopolymer

microstructure silver nanoparticles physical properties biodiesel cfd wastewater treatment lactic acid bacteria ontology ເດ็นทัลแพลตฟอร์ม ข้าว hardness mechanical properties sputtering ໄອໂດຣໄซโคลน electrochromic ชี້ວມວລ carotenoid chitosan

proteomics plasmodium berghei wollastonite ชีวภัณฑ์ 16s rrna

อิเล็กโทรไลเซอร์แบบออกไซด์แข็ง _{rice} ผู้ป่วยที่ใช้เก้าอี้ล้อเลื่อน cell proliferation methamphetamine Ic-ms/ms recycled pet coating zno dexamethasone morphology ปภิกิริยาโฟโตคะตะไลสิส hydroxyapatite hydrocyclone ผลผลิต fatique depression dirty panicle disease โรคเมล็ดด่าง cassava covid-19 microfluidics taxonomy finite element analysis

A A A relevance of Author Keywords



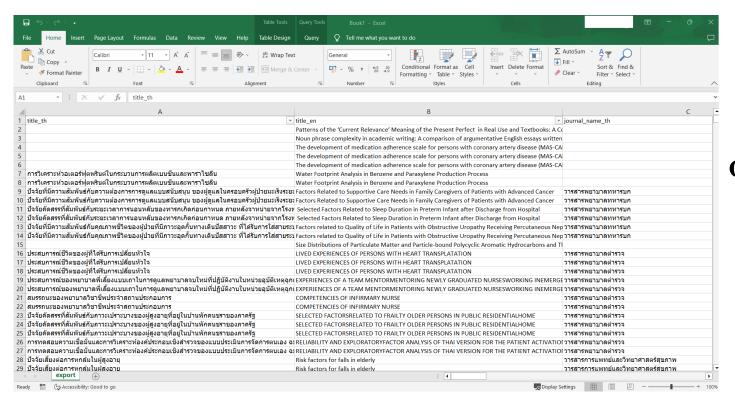
Provide API for 3rd parties

```
Server response
Code
            Details
200
           Response body
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                 "title_en": "Patterns of the 'Current Relevance' Meaning of the Present Perfect in Real Use and Textbooks: A Corpusdriven Perspective",
                 "journal_name_th": "",
                 "journal_name_en": "LEARN Journal: Language Education and Acquisition Research Network",
                 "authors_first_name_th": null,
                 "authors middle name th": null,
                 "authors_last_name_th": null,
                 "authors first name en": "R.",
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                 "issue": "1",
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                 "cited_times": 0,
                 "pub_references": null,
                 "document type": "Article",
                 "language": null,
                 "doi": null,
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                 "research field": "Social Sciences",
```

Output JSON file



Provide API for 3rd parties (Cont.)



Output CSV file

Pilot testing organizations



กลุ่มที่ 1 กลุ่มพัฒนาการวิจัยระดับแนวหน้าของโลก

- 1. จุฬาลงกรณ์มหาวิทยาลัย
- 2. มหาวิทยาลัยขอนแก่น
- 3. มหาวิทยาลัยเกษตรศาสตร์
- 4. มหาวิทยาลัยเชียงใหม่
- 5. มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าธนบุรี
- 6. มหาวิทยาลัยธรรมศาสตร์
- 7. มหาวิทยาลัยมหิดล
- 8. มหาวิทยาลัยวลัยลักษณ์
- 9. มหาวิทยาลัยสงขลานครินทร์

กลุ่มที่ 2 กลุ่มพัฒนาเทคโนโลยีและส่งเสริมการสร้าง

- นวัตกรรม
- 1. มหาวิทยาลัยเทคโนโลยีราชมงคลธัญบุรี
- 2. มหาวิทยาลัยเทคโนโลยีราชมงคลล้านนา
- 3. มหาวิทยาลัยราชภัฏพิบูลสงคราม

กลุ่มที่ 4 กลุ่มพัฒนาปัญญาและคุณธรรมด้วยหลักศาสนา

- 1. มหาวิทยาลัยมหาจุฬาลงกรณราชวิทยาลัย วิทยาเขต นครศรีธรรมราช
- 2. มหาวิทยาลัยมหามกุฎราชวิทยาลัย วิทยาเขตศรีธรร มาโศกราช

กลุ่มที่ 3 กลุ่มพัฒนาชุมชนท้องถิ่นหรือชุมชนอื่น

- 1. มหาวิทยาลัยราชภัฏเชียงใหม่
- 2. มหาวิทยาลัยราชภัฏพระนครศรีอยุธยา
- 3. มหาวิทยาลัยสวนดุสิต
- 4. มหาวิทยาลัยศรีนครินทรวิโรฒ

กลุ่มที่ 5 กลุ่มผลิตและพัฒนาบุคลากรวิชาชีพและ สาขาจำเพาะ

- 1. มหาวิทยาลัยราชภัฏสวนสุนันทา
- 2. มหาวิทยาลัยธุรกิจบัณฑิตย์

กลุ่มที่ 6 กลุ่ม<u>อื่นๆ</u> (ที่ไม่ได้กำหนดในกลุ่มที่ 1-5)

- 1. มหาวิทยาลัยอัสสัมชัญ
- 2. มหาวิทยาลัยเทคโนโลยีมหานคร
- สถาบันบัณฑิตพัฒนบริหารศาสตร์
- 4. มหาวิทยาลัยรังสิต
- 5. สถาบันการจัดการปัญญาฏิวัฒน์

กลุ่มที่ 7 หน่วยงานให้ทุนวิจัย

- 1. สำนักงานการวิจัยแห่งชาติ (วช.)
- 2. สำนักงานคณะกรรมการส่งเสริมวิทยาศาสตร์ วิจัยและนวัตกรรม (สกสว.)
- 3. สำนักงานปลัดกระทรวงอุดมศึกษา วิทยาศาสตร์ วิจัยและนวัตกรรม (สป.อูว.)
- 4. สภานโยบายการอุดมศึกษา วิทยาศาสตร์ วิจัยและนวัตกรรมแห่งชาติ (สอวช.)
- 5. สำนักงานพัฒนาการวิจัยการเกษตร (องค์การมหาชน) (สวก.)





Workshops

- 18 January 2024
- 5 March 2024
- 9 July 2024

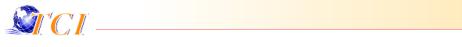


Roadmap for ThaiRAP

Ž.	Date	Activities
	18 January 2024	Release the Beta testing
	18 January – 4 March 2024	Collect feedbacks
	16 March -30 June 2024	System improvements based on feedbacks
	1 July 2024 -30 June 2025	Launch ThaiRAP version 2024 for Pilot testing organization (Free)
	1 May 2025 – 30 June 2025	Open registration process for Public (Free)
	June 2025 - July 2025	Webinar / Online workshop for Public (Free)
	1 July 2025 – 30 June 2026	Release ThaiRAP version 2024 for Public (Free)
	1 July 2026	Release ThaiRAP version 2025 for Public (Subscription)

Benefits:

- 1. 2 Years free access for 30 selected organizations
- 2 Years free access for 50 selected organizations
 1 Year free access for public



Thank you